CMTS Architecture Based on Ethernet Interface Locatable in a Fiber Node

ABSTRACT

A communication device (116, 216, 316, 416) for a communications network having a first integrated circuit (IC) (141, 244, 344, 444) including one or more receivers (136, 236, 336) and a first MAC function (140, 240, 340), and a second IC (139, 242, 342, 442) including one or more transmitters (134, 234, 334) and a second MAC function (138, 238, 338). The first (141, 244, 344, 444) and second (139, 242, 342, 442) IC's are coupleable to a communications network for controlling the downstream and upstream communications, respectively.